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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary Examiner		Application No.	Applicant(s)				
RRISTEN C. MATTER 3771 .	Office Action Comments	10/529,390	PORAT, MICHAEL				
The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extension of term mer bia variable under the processors of 3 CFR 1186b; in the rown this variable in the processor of 3 CFR 1186b; in the rown this processor of 3 CFR 1186b; in the rown public without the processor of 1 Filluses on	Oπice Action Summary	Examiner	Art Unit				
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1) Responsive to communication(s) filed on 26 February 2009. 2a This action is FINAL. 2b This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) 1_2,6_8-13_15_16_18-20_23_27_and_28_is/are pending in the application. 4a) Of the above claim(s)	 WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any 						
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DETAILED ACTION

This Action is in response to the amendment filed on 10/31/2008. Claims 1 and 27 have been amended. No claims have been added or deleted. Currently, claims 1, 2, 6, 8-13, 15, 16, 18-20, 23, 27, and 28 are pending in the instant application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 6, 12, 16, 18-20, 23, and 28 are rejected under 35 U.S.C. 103(a) as obvious over van der Smissen et al. (US 4,807,614, herein referred to as "Smissen") in view of Roy (US 2004/0261161).

Regarding claims 1, 12, 16, 18, and 20, Smissen discloses a mask that enables one to breathe filtered air comprising a hood (1) that includes a bag of transparent film material (column 3, lines 48-50), a filter assembly (2, 4) connected to the bag (See Figure 1) and exhalation valve (5) worn in the area of a user's nose and/or mouth (see Figure 1) and reducing the air space within the hood (column 2, line 12), and a separate sealing means (9), not attached/connected to the bag, to seal around the neck.

Smissen does not specifically mention the material is impermeable to gases. However, examiner points to the fact that the hood has valves and filters for preventing contaminated air

from entering the interior of the hood. This seems to clearly indicate that the bag is made of an impermeable film material, but regardless, it is obvious to one of skill in the art to make a hood for protecting against air toxins from a material that is impermeable to gases in order to protect the user from breathing unfiltered contaminants. The flexible nature of the hood inherently makes the hood foldable to pocket size. The additional mask (3) would not affect the ability of the hood to fold to pocket size (i.e., a relative term and it is well known that pockets come in a variety of sizes both large and small) and thus, the mask consists essentially of the claimed elements listed above.

Smissen also does not disclose a circumferential elastic sealing means (i.e., Smissen discloses a drawstring). However, Roy, in a protective suit in which air/water is prevented from entering the suit, discloses that drawstrings and elastic bands are equivalents/interchangeable (paragraph 16). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have replaced the drawstring of Smissen with an elastic band as taught by Roy because these two components are well known and commonly used as equivalents. Furthermore, it appears as though the device of Smissen would perform equally well with an circumferential elastic band. Note the term "band" implies a ring of material and therefore is considered to be circumferential. And since the bands are used on humans, it would be obvious to provide a snug comfortable fit that would not choke someone while still providing a good seal.

Regarding claim 6, Smissen discloses that the hood at least has to be transparent in the region of the eyes (abstract). Therefore, it would have been obvious to one of ordinary skill in

the art at the time the invention was made to have made any desired portions of the mask transparent as long as the eyes were included as a matter or design choice.

Regarding claim 19, Smissen as modified by Roy does not disclose 2 elastic bands.

However, it is well known to those of ordinary skill in the art that elastic bands are replaceable and therefore it would have been an obvious design consideration to one of ordinary skill in the art at the time of the invention to have provided a second (i.e., spare) elastic band in the mask of Smissen in order to replace the band should it break, for example.

Regarding claim 23, Smissen does not specifically state that the hood is turned inside out after use, however, the flexible nature of the hood material inherently allows the hood to be turned inside out after removal from the head.

Regarding claim 28, the modified device disclosed by Smissen and Roy has all of the structural limitations needed to perform the recited method steps, including unfolding the hood and stretching an elastic sealing means over the hood and around the neck, and is fully capable of doing so. It would have been obvious to one of ordinary skill in the art at the time the invention was made, upon seeing the modified Smissen device, to perform the recited method steps of the instant claim 28.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Smissen and Roy as applied to claims 1, 6, 12, 16, 18-20, 23, and 28 above, and further in view of McGuinness (H1316). Smissen does not disclose the hood as being made of a laminate of more than one plastic material. However, McGuinness discloses a similar protective hood formed from plastic laminates of more than one material (see column 2, lines 43-52). Therefore, it would have

been obvious to one of ordinary skill in the art at the time the invention was made to have made the hood of Smissen from a plastic laminate as disclosed by McGuinness in order to more effective protect the user from contaminants for extended periods of time. In addition, it appears as though the device disclosed by Smissen would perform equally well with a hood made of a plastic laminate as opposed to a single layer of plastic film.

Claims 8 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smissen and Roy as applied to claims 1, 6, 12, 16, 18-20, 23, and 28 above, and further in view of Richardson (US 6,134,716).

Regarding claim 27, Smissen discloses a connection piece for connection to source of air (which appears is enough to read on the instant claims). However, to the extent Smissen does not allow connection to a filter canister, examiner cites Richardson as teaching a foldable protective hood with a filter canister connected to the bag by connection means (abstract). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the filter strip (2) of Smissen with a connection piece and filter canister as taught by Richardson in order to allow the filter to be replaced as needed. In addition, it appears that the mask of Smissen would perform equally well with a filter canister and connection means.

Regarding claim 8, "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." *In re Thorpe*, 777 F.2d 695, 698, 227

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USPQ 964, 966 (Fed. Cir. 1985)(citations omitted). In this case, Smissen as modified by Roy and Richardson discloses the filter member as sealed to surface of the hood but does not specifically state that it is heat sealed. It is well known to persons of ordinary skill in the art to heat seal plastic materials as an effective means for creating air-tight barriers and therefore would have been obvious to one of ordinary skill in the art to heat seal the filter assembly onto the bag.

Claims 9-11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smissen and Roy as applied to claims 1, 6, 12, 16, 18-20, 23, and 28 above, and further in view of Richardson (US 6,134,716) and Wen (US 6,681,765).

Regarding claims 9 and 11, Smissen is silent as to a multilayered filter assembly. However, Richardson teaches a foldable protective hood with a multilayered filter canister connected to the bag by connection means (abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the filter strip (2) of Smissen with a connection piece and filter canister as taught by Richardson in order to allow the filter to be replaced as needed. In addition, Richardson discloses a multilayer filter with active charcoal but is silent as to an antiseptic. Wen discloses, in a respiration mask, a multilayer filter with charcoal and antiseptic agents including clorohexdine (see column 2, lines 55-60). It would have been obvious to one of ordinary skill in the art at the time of the invention to have provided Richardson's filter with an antiseptic agent as taught by Wen in order to more effectively protect the user from viruses and bacteria in the contaminated air. Furthermore, it appears as though the filter disclosed by Richardson would perform equally well with the antiseptic layer.

Regarding claim 10, Wen does not disclose that the charcoal is sandwiched between multiple layers of antiseptic agents. However, absent a critical teaching and/or a showing of unexpected results from having a charcoal layer sandwiched between the antiseptic layers,

Examiner contends it would have been an obvious design consideration to one of ordinary skill in the art at the time of the invention to have used two antiseptic layers surrounding a charcoal layer in the multilayer filter disclosed by the modified Smissen reference in order to use multiple antiseptic agents for example or for more effective protection against viruses and bacteria.

Furthermore, it appears as though the device disclosed by Smissen, Roy, Richardson and Wen would perform equally well with the antiseptic layers sandwiching the charcoal layer.

Regarding claim 13, Richardson does not disclose the particle sizes filtered by the filter. However, it the limitation "greater than 2 microns" includes macroparticles that would inherently be filtered out by the filter of Richardson (i.e., large dust). In any case, Wen discloses that the filter filters out particles in excess of 0.3 microns (column 5, line 60), which overlaps the claimed range of greater than 2 microns. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have designed the filter of Richardson to filter out particles greater than 2 microns in order to prevent contaminants from being breathed in by the user.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Smissen and Roy as applied to claims 1, 6, 12, 16, 18-20, 23, and 28 above, and further in view of Courtney (US 4,981,134). The modified Smissen reference does not disclose the valve as being embedded in the filter. However, Courtney discloses a filter assembly for a face mask that

includes an exhalation valve (7) embedded in the filter assembly (see Figure 1). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a filter assembly as taught by Courtney in the modified mask of Smissen in order to allow the valve and filter to both be easily replaced as needed.

Response to Arguments

Applicant's arguments filed 2/26/2009 have been fully considered but they are not persuasive.

In response to applicant's argument that the hold of van der Smissen et al. would not be able to be folded to pocket size because of the inner mask (3), examiner respectfully disagrees and argues that "pocket size" is a relative term that in its broadest reasonable interpretation simply means to be able to be placed into a pocket. It is well known that pockets come in a variety of sizes, but examiner has cited specific references with this Action that disclose pockets that hold masks of the same size as the van der Smissen et al. mask. Therefore, the plastic part of the hood is clearly foldable to the size of the mask portion (3), which is able to be placed into a pocket and thus considered "pocket size" (examiner notes that there are also pockets small enough that the instant hood would not be able to be fitted into them when folded). The term "consisting essentially of" as discussed above limits the scope to the specified materials and "those that do not materially affect the basic and novel characteristic(s)" of the claimed invention. *In re Herz*, 537 F.2d 549, 551-52, 190 USPQ 461, 463 (CCPA 1976). Here, the material characteristic appears to be the claimed sealing means in combination with a foldable hood. As discussed above, the material of the mask portion (3) of van der Smissen et al. does not

affect the device from being folded to "pocket size" and Roy discloses the claimed sealing means. Therefore, the combination of van der Smissen et al. with Roy discloses the claimed invention without any additional elements that materially affect the scope of the claim.

In response to applicant's argument that a drawstring and elastic band are not equivalent structures, examiner respectfully maintains that Roy teaches drawstrings and elastic bands are interchangeable in paragraph 16 for sealing clothing on a wearer. van der Smissen et al. discloses a drawstring for sealing the hood about wearer's head/neck. Elastic bands are circular pieces/loops of elastic. Therefore, the replacement of the drawstring of van der Smissen et al. with an elastic band as taught by Roy would in fact produce the instant invention as claimed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The balance of art cited is to show various pockets that are able to fit folded masks into them.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to KRISTEN C. MATTER whose telephone number is (571)272-

5270. The examiner can normally be reached on Monday - Friday 9-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Justine Yu can be reached on (571) 272-4835. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kristen C. Matter/

Examiner, Art Unit 3771

/Justine R Yu/

Supervisory Patent Examiner, Art Unit 3771